| <br> | Claims |  |
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|      |        |  |

| Applica | tion/Contro | No    |
|---------|-------------|-------|
| Applica | tion/Contro | I NO. |

10/660,837

Examiner

Susannah Lee

| Appl | icant( | s)/P | atent | unde |
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| Reex | amin:  | atio | n     |      |

WILKEN ET AL.

Art Unit

1626

| <b>√</b> | Rejected |
|----------|----------|
| _        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|          |          | L              | L              |  |              |          | J              |              |          |          |   |             |          |                |          |  |          |                  |          |           |          |          |          |          | l          | L               |          |    |
|----------|----------|----------------|----------------|--|--------------|----------|----------------|--------------|----------|----------|---|-------------|----------|----------------|----------|--|----------|------------------|----------|-----------|----------|----------|----------|----------|------------|-----------------|----------|----|
| Cla      | aim      |                |                |  | [            | Dat      | е              |              |          |          |   | Cla         | im       | L.,            |          |  |          | Date             | 3        |           |          |          |          | Cla      | aim        |                 | _        | _  |
| Final    | Original | 9/20/02        |                |  |              |          |                |              |          |          |   | Final       | Original |                |          |  |          |                  |          |           |          |          |          | Final    | Original   |                 |          |    |
|          | 1        | +              |                |  |              | Τ        | T              |              | _        |          |   |             | 51       |                |          | Π.   |          |                  | П        | T         | 寸        |          |          |          | 101        |                 | 寸        |    |
|          | 2        | 1              |                |  |              | Г        |                |              |          |          |   |             | 52       |                |          |  |          |                  |          |           |          |          |          | $\neg$   | 102        |                 | コ        |    |
|          | 3        |                |                |  |              |          |                |              |          |          |   |             | 53       |                |          |  |          |                  |          |           |          |          |          |          | 103        |                 |          |    |
|          | 4        |                |                |  |              |          |                |              |          |          |   |             | 54       |                |          |  |          |                  |          |           |          |          |          |          | 104        |                 |          |    |
|          | 5        | $\prod$        |                |  |              |          |                |              |          |          |   |             | 55       |                |          |  |          |                  |          |           |          |          |          |          | 105        |                 |          |    |
|          | 6        | Ш              |                |  |              | L        |                |              |          |          |   |             | 56       |                |          |  |          |                  |          |           |          |          | L        |          | 106        | $\Box$          |          |    |
|          | 7        | Ш              |                | _  | L            | 乚        |                | <u> </u>     |          |          |   | L           | 57       |                |          |  |          |                  |          | _         |          | _        |          |          | 107        | $\dashv$        | _        |    |
|          | 8        | Ш              | 匚              | _  |              | <u> </u> | ļ              | _            | _        |          | 1 |             | _58      | Ш              |          |  |          | L                | Ш        | $\dashv$  | _        | _        | L        |          | 108        |                 | _        |    |
|          | 9        | Ш              | _              |  | <u> </u>     | ╙        | ـ              | _            | _        |          |   |             | 59       |                |          |  | _        | _                |          | 4         |          | _        | _        |          | 109        | $\dashv$        | $\dashv$ |    |
|          | 10       | Н              | <b> </b>       | <u> </u>   | <u> </u>     | _        | ┡              | _            |          |          |   |             | 60       | $\blacksquare$ | -        |  |          |                  |          |           | _        | 4        | -        | $\dashv$ | 110        | $\dashv$        | $\dashv$ | _  |
|          | 11       | H              |                | _  | _            | ⊢        | $\vdash$       | ⊢            | $\vdash$ |          |   |             | 61       |                |          | _  | _        | _                | -        | -         |          |          | F        | $\dashv$ | 111        | $\dashv$        | $\dashv$ | _  |
|          | 12       | H              | -              | ⊢  | ⊢            | ┝        | ⊢              | ⊢            |          | _        |   |             | 62       | Н              |          |  |          | $\vdash$         | Н        | $\dashv$  | $\dashv$ | $\dashv$ | -        | $\dashv$ | 112        | $\dashv$        | $\dashv$ |    |
|          | 13<br>14 | H              | ⊢              | ⊢  | ⊢            | ├-       | ╁              | -            | _        |          |   | -           | 63<br>64 | Н              |          |  | _        | ⊢                | $\vdash$ | -         | -        | 긕        | -        |          | 113<br>114 | -               | $\dashv$ |    |
|          | 15       | H              | ⊢              | $\vdash$   | ┝            | ┢        | ┼              | -            |          | _        |   |             | 65       | Н              | $\vdash$ |  | -        | ┝                |          | -         | $\dashv$ | $\dashv$ | ⊢        | -        | 115        | $\dashv$        | $\dashv$ |    |
|          | 16       | H              | ┝              | ┢  | ⊢            | +-       | +              | -            | -        | -        |   | $\vdash$    | 66       | Н              |          |  |          | $\vdash$         |          | -         |          | ᅱ        | ⊢        |          | 116        | $\dashv$        | -        |    |
|          | 17       | ╁              | ╢              | ┝  | ╁            | ╁        | <del> </del> - | ┢            | H        | -        |   |             | 67       | Н              |          |  |          |                  | H        | $\dashv$  | $\dashv$ | $\dashv$ | <br> -   | $\dashv$ | 117        | $\dashv$        | 一        | _  |
|          | 18       | H              | ┢              | ┢  | ┢            | t        | +              | 1            | -        |          |   |             | 68       | Н              |          |  |          |                  | Н        | $\dashv$  | $\dashv$ | $\dashv$ | <b>-</b> | $\dashv$ | 118        | $\Box$          | 十        | _  |
|          | 19       |                | 1              | Н  | $t^-$        | t        | T              | $\vdash$     | $\vdash$ |          |   |             | 69       |                |          |  |          |                  |          | $\exists$ | T        | ┪        | ı        | $\dashv$ | 119        | $\Box$          | $\neg$   | _  |
|          | 20       | Ħ              | ┢              | T  | Г            | 1        | 1              | 1            |          |          | 1 |             | 70       |                |          |  |          |                  | П        |           |          | ╗        | Ī        | $\neg$   | 120        |                 | $\neg$   |    |
|          | 21       | П              | Г              |  |              | $\top$   |                |              |          |          | 1 |             | 71       |                |          |  |          |                  |          |           |          | ヿ        |          |          | 121        |                 | ヿ        |    |
|          | 22       | П              |                |  |              | Π        |                | Γ            |          |          |   |             | 72       |                |          |  |          |                  |          |           |          |          |          |          | 122        |                 |          |    |
|          | 23       | П              |                |  |              |          |                |              |          |          |   |             | 73       |                |          |  |          |                  |          |           |          |          |          |          | 123        |                 |          |    |
|          | 24       | П              |                |  |              |          |                |              |          |          |   |             | 74       |                |          |  |          |                  |          |           |          | _        | _        |          | 124        |                 |          |    |
|          | 25       | IJ/            | <u> </u>       | _  | <u> </u>     | <u> </u> |                | <u> </u>     | _        |          |   |             | 75       | Щ              |          |  |          |                  |          |           | $\Box$   | ᆚ        | L        |          | 125        |                 |          |    |
| <u> </u> | 26       | W              | L_             | <u> </u>   | _            | $\perp$  | <u> </u>       | <u> </u>     |          |          |   |             | 76       |                |          |  |          | _                |          |           | 4        | _        | _        |          | 126        | _               |          |    |
|          | 27       | +              | <u> </u>       | _  | <u> </u>     |          | _              | <u> </u>     |          |          |   |             | 77       | <u> </u>       |          | _  |          |                  | Ш        | $\dashv$  | -        | 4        | F        |          | 127        | $\vdash \vdash$ |          |    |
|          | 28       | <u> </u>       | _              | _  | _            | _        | -              | -            |          |          |   |             | 78       | Н              | _        | -  |          | _                |          | _         | -        |          | H        |          | 128        | $\dashv$        | $\dashv$ |    |
|          | 29       | ├              |                | ⊢  | _            | ⊢        | $\vdash$       | -            |          |          |   |             | 79       |                |          |  |          |                  |          |           | -        |          | F        |          | 129        | $\vdash$        | $\dashv$ |    |
| <u> </u> | 30       | ⊢              | <del> </del>   |  | ŀ            | ┡        | $\vdash$       | ├            | _        | _        |   |             | 80       | -              |          | <u> </u>   |          | H                | Н        | _         |          |          | ⊢        |          | 130        | $\vdash$        | $\dashv$ |    |
| -        | 31       | -              | H              | -  |              | $\vdash$ | ╁              | ╁┈           |          |          |   | -           | 81<br>82 | -              |          | $\vdash$   |          | -                | H        | -         | $\dashv$ | $\dashv$ | H        | -        | 131<br>132 | $\vdash$        | $\dashv$ |    |
| -        | 33       | ├              | <del> </del>   |  | -            | ⊢        | ╁              | ╁            | H        |          |   | $\vdash$    | 83       | $\vdash$       | $\dashv$ | ┝  |          | H                | H        | -         | ╌┤       | $\dashv$ | $\vdash$ | $\dashv$ | 133        | $\vdash$        | $\dashv$ |    |
| -        | 34       | $\vdash$       | $\vdash$       | $\vdash$   | -            | $\vdash$ | +              | ╁╌           | $\vdash$ | H        |   | $\vdash$    | 84       | Н              | $\vdash$ | <del>                                     </del> | -        | $\vdash$         | $\vdash$ | -         | $\dashv$ | $\dashv$ | $\vdash$ | -        | 134        | -               | $\dashv$ | _  |
| -        | 35       | -              | $\vdash$       | <del>                                     </del> | $\vdash$     | $\vdash$ | +              | +            | $\vdash$ | -        |   | $\vdash$    | 85       | Н              | H        |  | H        |                  | H        | $\dashv$  | $\dashv$ | $\dashv$ | H        | -        | 135        | $\Box$          | $\dashv$ | _  |
|          | 36       | †              | $\vdash$       | <del>                                     </del> | $\vdash$     | ✝        | †              | $t^-$        | H        | H        | l | $\vdash$    | 86       | ┥              | Н        | -  | <u> </u> |                  | $\vdash$ |           | $\dashv$ | $\dashv$ | H        | $\neg$   | 136        | $\neg$          | $\dashv$ | _  |
|          | 37       | t              | _              | 1  | $\vdash$     | T        | +              | T            | $\vdash$ |          |   |             | 87       | Н              |          |  |          | $\vdash$         | Н        |           | $\neg$   | $\dashv$ | 卜        | $\dashv$ | 137        | $\sqcap$        | $\dashv$ | _  |
|          | 38       | $\vdash$       | $\vdash$       | $\vdash$   | T            |          | 十              | ╁            | Н        |          | 1 |             | 88       | П              | П        | _  |          |                  | П        | $\dashv$  | $\neg$   | 一        | r        | $\neg$   | 138        | $\sqcap$        | $\dashv$ | _  |
|          | 39       | ✝              |                | ऻऻ   |              | T        | 1              |              |          |          |   |             | 89       |                |          |  |          |                  |          |           |          |          |          |          | 139        |                 | ヿ        | ٠. |
|          | 40       | <u> </u>       | Π              |  |              |          |                |              |          |          |   |             | 90       | П              |          |  |          |                  |          |           |          |          |          |          | 140        |                 | $\neg$   | _  |
|          | 41       |                |                |  |              |          |                |              |          |          |   |             | 91       |                |          |  |          |                  |          |           |          |          |          |          | 141        |                 |          |    |
|          | 42       |                |                |  |              |          |                |              |          |          |   |             | 92       |                |          |  |          |                  |          |           |          |          |          |          | 142        |                 |          |    |
|          | 43       |                |                |  | $\perp$      | $\perp$  |                |              |          |          |   |             | 93       | Ш              | $\Box$   | L  | L        |                  | Ш        | $\bot$    | _[       |          | L        |          | 143        | Ш               | [        | _  |
| <u> </u> | 44       | ļ              | _              | <u> </u>   | <u> </u>     | L        | _              | <u> </u>     |          | Щ        |   |             | 94       | Ш              |          | _  | L        | <u> </u>         | Ш        | $\Box$    | _        | _        |          |          | 144        | $\sqcup$        |          | _  |
| <u> </u> | 45       | ⊢              | <del> </del> _ | <del>  .</del>                                   | <u> </u>     | ↓_       | ┼              | <del> </del> | <u> </u> | ļ        |   |             | 95       | Н              | Ш        | <u> </u>   | <u> </u> | _                | Ш        |           | _        | _        | <br> -   |          | 145        | $\dashv$        | $\dashv$ |    |
| <u> </u> | 46       | <del> </del> — | ├              | <u> </u>   | <del> </del> | ⊢        | $\vdash$       |              | <u> </u> | $\vdash$ |   | <u> </u>    | 96       | $\vdash$       | $\vdash$ | -  | -        | _                | $\sqcup$ | $\dashv$  |          | $\dashv$ | -        |          | 146        |                 |          |    |
|          | 47       | -              | <del> </del>   | <del> </del>                                     | $\vdash$     | ╀        | +-             | $\vdash$     | $\vdash$ | -        |   |             | 97<br>98 | H              | Н        | -  | ⊢        | <del>  -  </del> | Н        | $\dashv$  |          | —        | -        |          | 147        | $\vdash$        |          | _  |
|          | 48<br>49 | -              | ├-             | ⊢  | ├            | ╀        | ╁              | ╀            | $\vdash$ |          |   | <del></del> | 99       | H              |          | $\vdash$   | ⊢        | -                | Н        | $\dashv$  | -        | $\dashv$ | H        |          | 148<br>149 | $\vdash \vdash$ | -        |    |
|          | 50       | +-             | $\vdash$       | $\vdash$   | $\vdash$     | $\vdash$ | +              | ╁            | $\vdash$ | $\vdash$ |   | $\vdash$    | 100      | H              | $\vdash$ | -  | $\vdash$ | -                | Н        | -         |          | ᅱ        | -        |          | 150        | ┝┥              | $\dashv$ |    |
|          | 100      | Ь              |                | ١  | L            |          |                | <u> </u>     | Ь        | L        | J |             | 1.00     | لـــــا        | لـــا    | Щ_   |          |                  | ட        |           |          |          | L        |          | 130        |                 |          |    |

| Cla   | aim  | _             | -  |               |              | Date   | =  |          | _  | $\neg$   |
|-------|--|---------------|--|---------------|--------------|--|--|----------|--|----------|
|       |  |               |  |               | Ī            |  |  |          |  | $\sqcap$ |
| a     | ına  |               |  |               |              |  |  |          |  |          |
| Final | Original   |               |  |               |              |  |  |          |  |          |
|       | 0  |               |  |               |              |  |  |          |  |          |
| _     | 101  |               |  |               |              |  |  |          | _  | П        |
|       | 101<br>102   |               |  |               |              |  |  |          |  | $\sqcap$ |
|       | 103  |               |  |               |              |  |  |          |  | Н        |
|       | 103<br>104   |               |  |               | _            | _  |  |          | -  | П        |
|       | 105  |               |  |               |              | _  |  | _        | _  | П        |
|       | 106  |               | $\overline{}$                                    | $\overline{}$ |              |  |  |          |  |          |
|       | 106<br>107<br>108                                    |               |  |               |              |  |  |          |  |          |
|       | 108  |               |  |               |              |  |  |          |  |          |
|       | 109<br>110   |               |  |               |              |  |  |          |  |          |
|       | 110  |               |  |               |              |  |  |          |  |          |
|       | 111  |               |  |               |              |  |  |          |  |          |
|       | 112  |               |  |               |              |  |  |          |  |          |
|       | 113  |               |  |               |              |  |  |          |  |          |
|       | 114  |               |  |               |              |  |  |          |  |          |
|       | 111<br>112<br>113<br>114<br>115<br>116               |               |  | · ·           |              |  |  |          |  |          |
|       | 116  |               |  |               |              |  |  |          |  |          |
|       | 117<br>118<br>119                                    |               | L  | $oxed{\Box}$  |              | _  | _  |          |  | Ш        |
|       | 118  |               |  |               |              |  |  |          |  | Ш        |
|       | 119  |               |  |               |              |  |  |          |  |          |
|       | 120  |               |  |               |              | <u> </u>   | <u> </u>   |          |  | Ш        |
|       | 121  | <u> </u>      | L  | _             |              | _  | <u> </u>   | _        | _  | Щ        |
|       | 122  |               |  |               |              | L.   | <u> </u>   | L.       | <u> </u>   | Ш        |
|       | 123  | _             |  |               | Ш            | _  | Ŀ  |          |  | Ш        |
|       | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127 | L.            | _  | _             | _            | _  | <u> </u>   | _        | _  | Ш        |
|       | 125  | _             | _  |               | _            | _  | _  |          |  | _        |
|       | 126  | _             |  | _             | _            | <u> </u>   | _  |          | _  | Н        |
|       | 127  | <u> </u>      |  | _             | <u> </u>     | <u> </u>   | _  |          | _  | $\vdash$ |
|       | 128<br>129<br>130<br>131<br>132                      | ├—            | <u> </u>   |               | ├-           | ⊢  | -  |          | -  | Н        |
|       | 129  | <del> </del>  | $\vdash$   |               | ┝            | ┝  | -  |          | -  | Н        |
|       | 130  | -             |  | _             | <u> </u>     | <u> </u>   | -  | -        |  | Н        |
|       | 122  | <u> </u>      |  |               | <del> </del> | -  |  |          | <del> </del>                                     | Н        |
|       | 132  | -             | $\vdash$   | <del> </del>  |              |  | ├─   | -        | ├  | $\vdash$ |
|       | 133<br>134   | ├             | $\vdash$   | $\vdash$      | <del> </del> | $\vdash$   | ├  | <u> </u> | $\vdash$   | Н        |
|       | 1 1 3 5  | $\vdash$      | $\vdash$   | $\vdash$      | $\vdash$     | $\vdash$   | $\vdash$   | ⊢        | -  | H        |
|       | 136  | -             | -  | -             | _            | $\vdash$   | -  | -        | -  | Н        |
|       | 136<br>137<br>138                                    | <del> </del>  | $\vdash$   | $\vdash$      | $\vdash$     | <del>                                     </del> | <del>                                     </del> | -        | <del>                                     </del> | Н        |
|       | 138  | _             | <del>                                     </del> | $\vdash$      | $\vdash$     | $\vdash$   | -  | -        | $\vdash$   | Н        |
|       | 139  | _             |  | <u> </u>      |              |  |  |          | $\vdash$   | Н        |
| -     | 139<br>140   |               | П  | <u> </u>      | Г            | Г  |  |          | Ι  | М        |
|       | 141  |               |  |               |              |  |  |          |  | П        |
|       | 142  | $\overline{}$ |  |               |              | · · · ·  |  |          |  | П        |
|       | 143  | Г             |  |               |              |  |  |          |  | П        |
|       | 144  |               |  |               |              |  |  |          |  |          |
|       | 145  |               |  |               |              |  |  |          |  | П        |
|       | 146  | L             |  |               |              |  |  |          |  |          |
|       | 147  |               |  |               |              |  |  |          |  |          |
|       | 148  |               |  |               |              |  |  |          |  |          |
|       | 149  |               |  |               |              |  |  |          |  |          |
|       | 150  |               |  |               |              |  |  |          |  |          |
|       |  |               |  |               |              |  |  |          |  |          |